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Admitted only in Maryland Admitted only in Virginia
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Practice Limited to Federal Agencies

January 22, 2003

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Commissioner for Patents Washington, D.C. 20231

Hand Carry to Examiner A. Webhé Crystal Mall I, 7th Floor Reception: Art Unit 1632:

Re:

U.S. Utility Patent Application

Appl. No. 09/937,604; U.S.C. § 371 Date: September 26, 2001

Adjuvant Compositions and Methods for Enhancing Immune Responses to Polynucleotide-Based vaccines
Inventors: Wheeler, Carl J.
Our Ref: 1530.0310002/EKS/EJH/ALS

Transmitted herewith for appropriate action are the following documents:

Sir:

- Information Disclosure Statement;
- 2. Form PTO-1449 (14 sheets citing 56 documents);
- 3. 56 documents cited in Form PTO-1449 attached; and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents January 22, 2003 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Agent for Applicant Registration No. 48,181

EJH/ALS/lam Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wheeler, Carl J.

Appl. No. 09/937,604

U.S.C. § 371 Date: September 26, 2001

For: Adjuvant Compositions and Methods for Enhancing

Immune Responses to

Polynucleotide-Based Vaccines

Confirmation No. 2136

Art Unit: 1632

/IIIt. 1032

Examiner: To Be Assigned

Atty. Docket: 1530.0310002/EKS/EJH/ALS

Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

United States Patent Application No. 09/580,463, Wheeler, Carl J., filed May 26, 2000, and submitted herewith as document AT11;

United States Patent Application No. 09/092,486, Wheeler, Carl J., filed June 5, 1998, and submitted herewith as document AR12;

United States Patent Application No. 09/557,907, Horton *et al.*, filed April 21, 2000, and submitted herewith as document AS12;

United States Patent Application No. 08/486,533, Felgner *et al.*, filed June 7, 1995, and submitted herewith as document AT12;

United States Patent Application No. 09/478,457, Wolff *et al.*, filed January 6, 2000, and submitted herewith as document AR13;

United States Patent Application No. 09/588,655, Wolff *et al.*, filed June 6, 2000, and submitted herewith as document AS13;

United States Patent Application No. 09/534,943, Wheeler, Carl J., filed March 24, 2000, and submitted herewith as document AT13; and

United States Patent Application No. 10/127,683, Hobart *et al.*, filed April 23, 2002, and submitted herewith as document AR14.

United States Patent Application No. 10/202,858, Felgner *et al.*, filed July 26, 2002, and submitted herewith as document AS14.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not

be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Aaron L. Schwartz
Agent for Applicant
Registration No. 48,181

Date: <u>January 22, 2003</u>

1100 New York Avenue, N.W. Suite 600 Washington, D.C. 20005-3934 (202) 371-2600

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	AA1	5,2	264,618	11/23/1993	Felgner et al.			04/16/1991	
	AB1	5,3	334,761	08/02/1994	Gebeyehu et al.			08/28/1992	
	AC1	5,4	159,127	10/17/1995	Felgner et al.			09/16/1993	
	AD1	5,5	80,859	12/03/1996	Felgner et al.			03/18/1994	
	AE1	5,5	89,466	12/31/1996	Felgner et al.			01/26/1995	
	AF1	5,6	341,665	06/24/1997	Hobart et al.			11/28/1994	
	AG1	5,6	76,954	10/14/1997	Brigham			05/08/1995	
	AH1	5,6	593,622	12/02/1997	Wolff et al.			06/07/1995	
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	AK1	6,2	35,310 B1	05/22/2001	Wang et al.			04/03/1998	
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	AS	<u>3</u>	transfection	Felgner, P.L. et al., "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84:7413-7417, The National Academy of Sciences of the United States of America (1987).					
	АТ	<u>3</u>	Series of Cat:	ionic Lipid Fo	anced Gene Delivery and ormulations" <i>J. Biol. C</i> nd Molecular Biology, I	hem. 269:2	550-2561,	with a Novel The American	
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	ATTY. DOCKET NO. 1530.0310002/EKS/EJH/ALS	APPLICATION NO. 09/937,604
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	AS	4	Fox, J.L., "N Co. (1994).	Fox, J.L., "No winners against AIDS," <i>Bio/Technology 12</i> :128, Nature Publishing Co. (1994).					
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communication to Applicant.

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ATTY. DOCKET NO. APPLICATION NO. 1530.0310002/EKS/EJH/ALS 09/937,604 APPLICANT Wheeler, Carl J. U.S.C. § 371 DATE GROUP September 26, 2001 2151

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

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	AT	<u>6</u>	"C ₃₅ H ₇₁ N ₂ O ₂ ," <i>CH</i> (December 200	nem. Abstracts 0).	s 133(Formula Index):516			cal Society	
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1530.0310002/EKS/EJH/ALS 09/937,604

APPLICANT Wheeler, Carl J.

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September 26, 2001 2151 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-FILING DATE CLASS AA AB AC AD ΑE AF AG AΗ ΑI АJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS Yes AL No Yes ΑM No Yes AN Νo Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Norman, J.A. et al., "Development of improved vectors for DNA-based immunization AR and other gene therapy applications, " Vaccine 15:801-803, Elsevier Science Ltd. 7 (1997). Norman, J. et al., "Adjuvants for Plasmid DNA Vaccines," in Methods in Molecular Medicine, Vol. 29, DNA Vaccines: Methods and Protocols, Lowrie, D.B. and R.G. AS 7 Whalen, eds., Humana Press Inc., Totowa, NJ, pp. 185-196 (August 1999). Okada, E. et al., "Intranasal Immunization of a DNA Vaccine with IL-12- and Granulocyte- Macrophage Colony-Stimulating Factor (GM-CSF)-Expressing Plasmids in ΑТ 7 Liposomes Induces Strong Mucosal and Cell-Mediated Immune Responses Against HIV-1 Antigens, " J. Immunol. 159:3638-3647, American Association of Immunologists (1997). EXAMINER DATE CONSIDERED

U.S.C. § 371 DATE

Page 8 of 14

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1530.0310002/EKS/EJH/ALS 09/937,604

APPLICANT Wheeler, Carl J.

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	AR	<u>8</u>	DNA/Cationic	Lipid Complex	Distribution of the Cyt Following Intravenous Ann Liebert, Inc. (1997)	Administra	omponent c tion in Mi	of a Plasmid- .ce," Hum.
	AS	<u>8</u>	Raz, E. et al., "Preferential induction of a Th_1 immune response and inhibition of specific IgE antibody formation by plasmid DNA immunization," <i>Proc. Natl. Acad. Sci. USA 93</i> :5141-5145, The National Academy of Sciences of the United States of America (1996).					
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
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APPLICANT
Wheeler, Carl J.

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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APPLICANT Wheeler, Carl J.

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ATTY. DOCKET NO. 1530.0310002/EKS/EJH/ALS 09/937,604

APPLICANT Wheeler, Carl J.

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ATTY. DOCKET NO.
1530.0310002/EKS/EJH/ALS

APPLICATION NO.
09/937,604

APPLICANT
Wheeler, Carl J.

U.S.C. § 371 DATE GROUP September 26, 2001 2151

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APPLICANT Wheeler, Carl J.

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